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Title: JP2004033673A2: UNIFIED PROBABILITY FRAMEWORK FOR PREDICTING AND DETECTING INTRACEREBRAL STROKE MANIFESTATION AND MULTIPLE THERAPY DEVICE

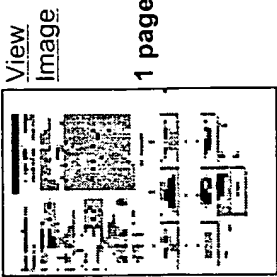
Derwent Title: Automatically predicting and preventing electrographic onset of seizure in individual by extracting set of features from monitored signals, synthesizing probability vector, and applying intervention measure(s) [\[Derwent Record\]](#)

Country: JP Japan
Kind: A2 Document Laid open to Public inspection
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Assignee: TRUSTEES OF THE UNIV OF PENNSYLVANIA
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Abstract: PROBLEM TO BE SOLVED: To provide a method and device for predicting and detecting epileptic seizure onsets enabling a portion of the device to automatically deliver a progression of multiple therapies, ranging from benign to aggressive as the probabilities of seizure warrant.
SOLUTION: Based on novel computational intelligence algorithms, a realistic posterior probability function P (ST/x)

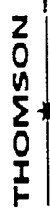
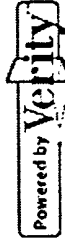


representing the probability of one or more seizures starting within the next T minutes, given observations (x) derived from EEG or other signals, is periodically synthesized for a plurality of prediction time horizons. When coupled with optimally determined thresholds for alarm or therapy activation, probabilities defined in this manner provide anticipatory time-localization of events in a synergistic logarithmic-like array of time resolutions, thus effectively circumventing the performance vs. prediction-horizon trade off of single resolution systems and corresponding to the aggressive therapy.

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Family: None

Other Abstract Info: None



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